

Title (en)
PHOTOVOLTAIC CELL COMPRISING A PHOTOVOLTAIC ACTIVE SEMICONDUCTOR MATERIAL

Title (de)
PHOTOVOLTAISCHE ZELLE MIT EINEM PHOTOVOLTAISCH AKTIVEN HALBLEITERMATERIAL

Title (fr)
PILE PHOTOVOLTAIQUE CONTENANT UNE MATIERE SEMI-CONDUCTRICE A ACTION PHOTOVOLTAIQUE

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Application
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Abstract (en)
[origin: US7847187B2] The invention relates to a photovoltaic cell comprising a photovoltaically active semiconductor material, wherein the photovoltaically active semiconductor material is a p- or n-doped semiconductor material comprising a binary compound of the formula (I) or a ternary compound of the formula (II): $ZnTe$ (I) $Zn_{1-x}Mn_xTe$ (II) where x is from 0.01 to 0.99, and a particular proportion of tellurium ions in the photovoltaically active semiconductor material has been replaced by halogen ions and nitrogen ions and the halogen ions are selected from the group consisting of fluoride, chloride and bromide and mixtures thereof.

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